

CVP-CAS Central Valley Project Cost Allocation Study

Background

- Last Meeting on 3/16/12
 - Reviewed Flood Control Methodology
 - Introduced Re-Pricing Methodology
 - Feedback





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CVP-CAS Central Valley Project Cost Allocation Study

Summary of Feedback Received

- Tracking System Decisions Made to Date/Actions Completed
- Methodology Better Understanding of Overall Approach
- CVP Facilities Focus on Multi-purpose Facilities

CVP-CAS Analysis Approach

Draft Assumptions

- Methodology
- Period of Analysis
- Benefits Analysis
- Cost Estimating
- Allocation Application
- Interest Rate
- Facilities Included

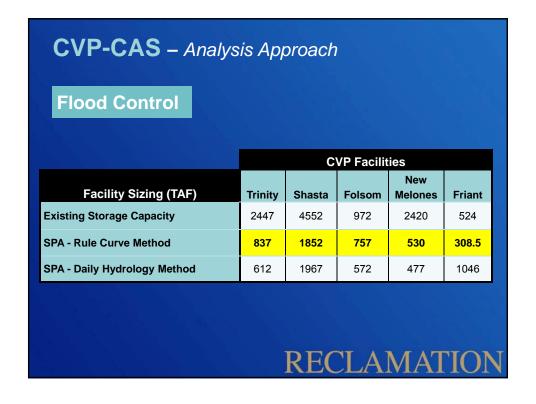
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CVP-CAS Central Valley Project Cost Allocation Study

Overview of Analysis Approach

- Benefit Evaluation
- Define Single Purpose Alternatives (SPA)
- Facilities Included
- Estimating SPA Costs
- Responsible Staff and Schedule

CVP-CAS - Analysis Approach **Flood Control** Benefits **Damages Prevented Analysis** SPA Dam and reservoir at existing CVP facility sites Sizing **USACE** Rule Curve Method **Facilities** Shasta, Trinity, Clear Creek Tunnel, Whiskeytown, Spring Creek Dam/Reservoir, Folsom, Nimbus Dam/Lake Natoma, New Melones and Friant Cost Estimating Cost curve model to re-price SPA Team Lead(s) USACE, Denver TSC, MP Design & Construction RECLAMATION



CVP-CAS - Analysis Approach

Navigation

Benefits Benefit values no longer calculated by USACE,

values generated for 1988 cost allocation effort

SPA Not applicable (benefit value would be used)

Sizing Not applicable

Facilities Shasta, if applicable

Cost Estimating Not applicable

Team Lead(s) USACE, MP Ratesetting

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CVP-CAS - Analysis Approach

Recreation

• Benefits Based on historical recreation visitation,

reservoir water levels, & market area

populations

SPA Not applicable (benefit value would be used)

Sizing Dam sized to provide water levels sufficient to

maintain current visitation

Facilities
 New Melones, Los Banos Detention Dam

Cost Estimating Not applicable

• Team Lead(s) Denver TSC, MP Design & Construction

CVP-CAS – Analysis Approach Power

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- · Benefits
- Benefits measured on national/regional scale as value of CVP hydropower to the electric grid
- Power benefits are constrained by actual water operations
- Power (energy, capacity and ancillary services) valued using avoided cost approach
- Use of PLEXOS model (transmission constrained production cost model)
- SPA

Hydropower facilities in current multipurpose facility locations

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CVP-CAS - Analysis Approach

Power

- Sizing
- Dam, reservoir, power plant system providing comparable power benefits to existing CVP power features
- Include on-peak, off-peak and ancillary service benefits
- Capacity benefits estimated using a dry year analysis
- Facilities

Shasta, Trinity, Spring Creek, Whiskeytown (Judge Francis Carr), Folsom, Nimbus, New Melones

Cost Estimating

Cost curve model to re-price SPA

Team Lead(s)

MP Planning, Western Area Power Administration

CVP-CAS – Analysis Approach Water Supply Benefits Irrigation/Agriculture, Municipal & Industrial, Wildlife Refuge SPA Dam and reservoir Sizing Based on water deliveries Model constructed to generate fixed deliveries under current regulatory environment (including physical constraints and fixed operations of the SWP) Determine reservoir sizes required to facilitate

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deliveries

Water Supply Facilities Shasta, Trinity, Clear Creek Tunnel, Whiskeytown Dam & Lake, Spring Creek Dam & Reservoir, Folsom, Nimbus Dam & Lake Natoma, New Melones, Los Banos Detention Dam, Friant, Tehama-Colusa Canal Cost Estimating Cost curve model to re-price SPA Team Lead(s) Denver TSC, MP Design & Construction RECLAMATION

CVP-CAS - Analysis Approach

Water Quality

 Benefits Increased flows in the Stanislaus River to improve

fisheries habitat and water quality

 SPA Dam and reservoir

 Sizing Determine reservoir size required to facilitate

water deliveries for water quality

 Facilities **New Melones**

Cost Estimating Cost curve model to re-price SPA

 Team Lead(s) MP Ratesetting, MP Planning, Denver TSC

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CVP-CAS - Analysis Approach

Fish and Wildlife

Benefits Single purpose fish hatcheries/protection

facilities/restoration programs - Nonreimbursable

CVP fish and wildlife mitigation - Reimbursable

Reclamation to continue pursuing FWS

coordination opportunities

 SPA & Sizing **TBD**

 Facilities Whiskeytown, Spring Creek, New Melones,

Tehama-Colusa Canal

Cost Estimating TBD

 Team Lead(s) Fish and Wildlife Service, MP Planning & Ratesetting

Facility	CVP Authorized Purposes						
	Flood Control	Navigation	Water Supply	Power	Fish & Wildlife	Recreation	Water Quality
Shasta	Х	Х	Χ	Х			
Trinity	χ		Х	Х			
Clear Creek Tunnel	Χ		Х	Х			
Whiskeytown Dam	Χ		Х	Х	Χ		
Spring Creek Dam				Х	Х		
Folsom	Χ		Х	Х			
Nimbus Dam/L. Natoma	Χ		Х	Х			
Los Banos Creek Dam	Х		Х			х	
Friant	Χ		Х				
New Melones*	Х		Χ	Х	Χ	Х	Χ
Tehama-Colusa Canal			Χ		Χ		

CVP-CAS Next Steps Review and Respond to Comments Received Refinement of Process and Schedule Upcoming Public Meetings September 21, 2012 December 14, 2012 RECLAMATION

